Hepatitis C Program and Data Update
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Viral Hepatitis Program Overview

Program Coordinator

Hepatitis B Prevention and Analysis Specialist

Surveillance Coordinator

Prevention Coordinator

Epidemiologist
Electronic Laboratory Reporting

Perinatal Hepatitis C Prevention and Analysis Specialist

Epidemiologist
Special Projects

Linkage to Care Specialist

Education and Technical Assistance Specialist
Estimated Rate of People Living with Hepatitis C, 2016

Reported Confirmed Acute Hepatitis C: Kentucky and US, 2005 - 2016
Reported Confirmed Acute Hepatitis C: Kentucky, US and High-Rate States, 2005 - 2018

West Virginia, Tennessee and Massachusetts Viral Hepatitis Programs
Case Counts and Rates of Confirmed and Probable Acute HCV Infection, Kentucky 2013-2018

![Graph showing case counts and rates of confirmed and probable acute HCV infection in Kentucky from 2013 to 2018.](image)
Case Rates of Confirmed and Probable Acute HCV Infection by County, Kentucky, 2017

Acute HCV Rate per 100,000
Statewide 5.9

- 0.0
- 0.1 - 6.3
- 6.4 - 10.9
- 11.0 - 16.4
- 16.5 - 29.1
- 29.2 - 44.7
Perinatal Hepatitis C

• 902 KAR 2:020 Reportable Disease Surveillance – amended February 2015
  • Hepatitis C infection in a pregnant woman
  • Hepatitis C infection in an infant or a child aged five years or less
  • Newborns born to Hepatitis C positive mothers at the time of delivery

• KRS 214.160 amended to establish that all pregnant women be tested for hepatitis C and recommend testing for children born from a pregnant women who has a positive hepatitis C test result – July 2018
Perinatal Hepatitis C Reporting Discrepancy

Hepatitis C Reports for Pregnant Women and Mothers in Kentucky by Reporting Source

- Reported to KVHPP
- Reported on Birth Certificate

Perinatal Reports received by the Viral Hepatitis Program
Hepatitis C Infection reported on Birth Certificate - Kentucky’s Office of Vital Statistics
Reported Hepatitis C Status of Mother among Kentucky Resident Births, 2010 - 2018

Hepatitis C Infection reported on Birth Certificate - Kentucky's Office of Vital Statistics
Rate of Hepatitis C Infection among Pregnant Women per 1,000 Live Births, by County – Kentucky 2014-2016
Medicaid Recipients Tested and Treated for Hepatitis C, 2017 and 2018

- Chronic HCV Diagnosis: 21322 (2017) vs. 22342 (2018)
- Treated: 499 (2017) vs. 1924 (2018)

Graph by Kentucky Department of Medicaid Services
Electronic Laboratory Reporting

• 902 KAR 2:020 Reportable Disease Surveillance – amended October 1, 2016
• Hepatitis C laboratory tests results reportable, whether positive or negative
• Reported through the Kentucky Health Information Exchange (KHIE)
• Flows through National Electronic Disease Surveillance System (NEDSS)
Electronic Laboratory Reporting

OPPORTUNITIES
• Identify acute cases
• Identify gaps in confirmation testing
• Estimate prevalence
• Cascade of cure
• Reinfection

LIMITATIONS
• Not all labs onboarded at once
• KHIE switched vendors – silent period
• Volume and capacity
• IT infrastructure
Positive Confirmatory Hepatitis C Virus Results by County, January 2017 – June 2019
Cascade of Cure – Goal of ELR
EXAMPLE

- Diagnosed: 40000
- Confirmed: 21000 (RNA (+), RNA Unknown), 14000 (RNA (-))
- Cured: 18000 (RNA (+), RNA (-))
- Subsequently Infected: 110 (RNA (+)), 90 (RNA (-))
CDA Foundation

• Non-profit specializing in the study of complex and poorly-understood diseases in order to provide countries with data and information to create and implement successful elimination strategies

• ASTHO funded

• Disease burden modeling for HCV in Kentucky
  • Viremic Infections
  • New HCV Infections
  • Continuum of Cure
Vulnerability Assessment – Tennessee Example
Behavioral Risk Factor Surveillance System

- Hepatitis Module added to the 2019 Kentucky BRFSS Questionnaire
- Module created by CDC Division of Viral Hepatitis
- Hepatitis C
  - Told by Provider
  - Treated 2015 or later
  - Treated before 2015
  - Current infection
- Hepatitis B
  - Told by provider
  - Currently on treatment
Thank you!

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QUESTIONS?